GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA

UNSTARRED QUESTION NO:1300
ANSWERED ON:23.11.2016
Construction of Nuclear Power Plants
Godse Shri Hemant Tukaram;Mishra Shri Anoop

Will the Minister of ATOMIC ENERGY be pleased to state:

(a)the details of operational and under construction nuclear power plants in the country alongwith the time by which under construction plants are likely to generate energy;

(b)whether the operational plants are not generating energy as per their installed capacity if so, the details thereof and the reasons therefor; and

(c)the share of present nuclear power generation in total power production in the country?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE (Dr. JITENDRA SINGH):

(a)There are 21 nuclear power plants which are operational in the country with a total capacity of 5780 MW. In addition, the second unit of Kudankulam KKNPP-2(1000 MW) is connected to the southern grid and is presently generating infirm power. The unit is expected to start commercial operation by end of this year. There are four nuclear power reactors under construction, each of 700 MW, which are progressively expected to be completed by 2019. The details are attached in the Annexure.

Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI), a public sector company under Department of Atomic Energy (DAE) is constructing one 500 MWe Prototype Fast Breeder Reactor (PFBR) at Kalpakkam, Tamil Nadu. PFBR is under advanced stage of commissioning.

(b)No, Sir. At present nuclear power reactors in operation are being operated close to their rated capacity.

(c)The share of nuclear power in the total electricity generation in the country was about 3.4% in the year 2015-16.

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Annexure referred to in reply to Part (a) of Lok Sabha Unstarred Question No. 1300 for answer on 23.11.2016

Annexure
Operational Nuclear Power Plants in the country

State Location Units Capacity (MW)

Maharashtra Tarapur TAPS-1 160
TAPS-2 160
TAPS-3 540
TAPS-4 540
Rajasthan Rawatbhata RAPS-1* 100
RAPS-2 200
RAPS-3 220
RAPS-4 220
RAPS-5 220
RAPS-6 220
Tamil Nadu Kalpakkam MAPS-1 220
MAPS-2 220
Kudankulam KKNPP-1 1000
Uttar Pradesh Narora NAPS-1 220
NAPS-2 220
Gujarat Kakrapar KAPS-1# 220
KAPS-2# 220
Karnataka Kaiga KGS-1 220

KGS-2 220
KGS-3 220
KGS-4 220

*Under extended shutdown for techno-economic assessment for continued operation.
Presently the units are under long shutdown for Enmasse Coolant Channel Replacement (EMCCR) and Enmasse Feeder Replacement (EMFR)
Nuclear Power Projects under construction
Project Capacity (MW) Status
KAPP−3&4, Kakrapar, Gujarat 2 X 700 Under Construction, expected completion by 2019
RAPP−7&8, Rawatbhata, Rajasthan 2 X 700

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